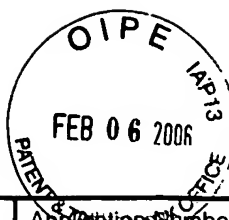


Please type a plus sign (+) inside this box → +



HDP/SB/21 based on PTO/SB/21 (08-00)

ISW

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/632,825
Filing Date	August 4, 2003
Inventor(s)	Yun-Jung LEE et al.
Group Art Unit	2826
Examiner Name	Evan T. Pert
Attorney Docket Number	9862-000016/US

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement w/ PTO 1449/Reference (1) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Letter to the Official Draftsperson and _____ Sheets of Formal Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims)  <input type="checkbox"/> Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <b>Re-Submission of Previously Filed Information Disclosure Statement, with attachments</b>
<div>Remarks</div>		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	John A. Castellano	Reg. No.	35,094
Signature					
Date	February 6, 2006				



PATENT  
9862-000016/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Yun-Jung LEE et al. CONF. NO.: 9195  
SERIAL NO.: 10/632,825 GROUP: 2826  
FILED: August 4, 2003 EXAMINER: Evan T. Pert  
FOR: METHOD OF FORMING OXIDE LAYER USING ATOMIC  
LAYER DEPOSITION METHOD AND METHOD OF  
FORMING CAPACITOR OF SEMICONDUCTOR DEVICE  
USING THE SAME

***RE-SUBMISSION OF PREVIOUSLY FILED  
INFORMATION DISCLOSURE STATEMENT***

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314  
**Mail Stop Amendment**

February 6, 2006

Dear Sir:

In the Office Action dated October 17, 2005, the Examiner stated that the Information Disclosure Statement filed August 3, 2005 (a copy of which is attached herewith), did not comply with 37 C.F.R. 1.98(a)(3) because no translation of the Korean Office Action was provided. Thus, the Examiner did not consider any documents cited on the form PTO-1449.

The Examiner is not required to nor do Applicants request the Examiner's consideration of the Korean Office Action. The Korean Office Action is merely provided as proof of the date on which the Office Action was issued such that Applicants can provide proper certification under 37 C.F.R. § 1.97(e). Regardless, however, it appears that the Examiner has

overlooked, and still failed to consider, the additional reference U.S. Patent No. 6,391,803 listed on the form PTO-1449. Accordingly, Applicants request that **the Examiner consider U.S. Patent No. 6,390,803**, and indicate such in a PTO correspondence. Because Applicants originally filed this Information Disclosure Statement in a timely manner, no further fees and/or certification are necessary.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, PLC

By \_\_\_\_\_

John A. Castellano  
Reg. No. 35,094

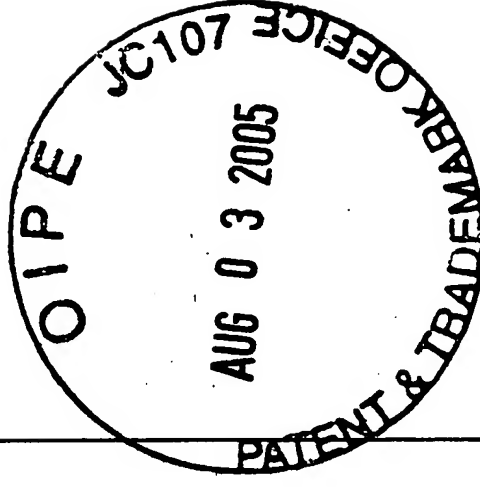
JAC/AMW:jcp

P.O. Box 8910  
Reston, VA 20195  
(703) 668-8000

Applicant:	Yun-Jung LEE et al.	Case No.:	9862-000016/US
Serial No.:	10/632,825	Filing Date:	August 4, 2003
Title: METHOD OF FORMING OXIDE LAYER USING ATOMIC LAYER DEPOSITION METHOD AND METHOD OF FORMING CAPACITOR			

**Please acknowledge receipt of:**

**Information Disclosure Statement  
PTO Form 1449  
References (1)  
Korean Office Action**



By stamping and returning to Harness, Dickey & Pierce, P.L.C.		USPTO Date Stamp
Due: 08/11/2005	Attorney: JAC/AMW:lak	Filed: 08/03/2005

5



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/632,825  
Filing Date: August 4, 2003  
Applicant: Yun-Jung LEE et al.  
Group Art Unit: 2812  
Examiner: Evan T. Pert  
Title: Method of Forming Oxide Layer Using Atomic Layer  
Deposition Method and Method of Forming Capacitor  
of Semiconductor Device Using the Same  
Attorney Docket: 9862-000016/US

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314  
**Mail Stop Amendment**

August 3, 2005

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form PTO-1449 attached hereto.

**II. COPIES**

A. ☐ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) for each cited pending unpublished U.S. application listed below in Section IV, the application specification including the claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ☐ Any patents, publications or other information which are listed on Form PTO-1449 or on the copies of Form PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. ☒ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form PTO-1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form PTO-1449 are enclosed herewith.

D. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form PTO-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☐ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☐ See the attached foreign patent office communication from a counterpart foreign application: Korean Office Action dated May 11, 2005
2. ☐ English translations are provided for:
3. ☐ Other:

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☐ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. ☐ 37 C.F.R. § 1.97(b): (check only one box)

1. ☐ within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☐ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☒ 37 C.F.R. § 1.97(c): (check only one box)

☒ before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☒ See the certification below. No fee is required.

C. ☐ 37 C.F.R. § 1.97(d):

☐ after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

- A. ☒ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. § 1.704(d) below in section VII, if applicable; or
- B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C. ☐ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 C.F.R. § 1.704(d)

The undersigned hereby states that:

- ☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A. ☒ No fee is believed to be due in light of the above-provided certification.
- B. ☐ A check in the amount of \$180.00 is enclosed for the above-identified fee.



C. ☐ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. §§ 1.16 or 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKY, & PIERCE, P.L.C.

By

John A. Castellano, Reg. No. 35,094

P.O. Box 8910  
Reston, Virginia 20195  
(703) 668-8000

JAC/AMW:lak

Enclosures: ☒ Form PTO-1449(s) (1 sheet(s))  
☐ Documents  
☒ Korean Office Action  
☐ Fee  
☐ Other:

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET NO.

SERIAL NO.

9862-000016/US

10/632,825

APPLICANT

Yun-Jung LEE et al.

FILING DATE

GROUP

August 4, 2003

2812

## U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
		6,391,803 B1	05/21/2002	Kim et al.		

## FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
		Korean Office Action dated May 11, 2005

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.